



National Lighting Partner Meeting

March 1-3, 2006

ENERGY STAR

**Residential Light Fixtures Quality
Assurance Testing**

Why QA?



- Integrity of the ENERGY STAR brand
 - Benefits to partners
- Follow up to PEARL

Poor Quality Lighting



Example of Why QA Testing is Important

What's changing?



	PEARL	QA 4
Who pays	Utilities, EPA	Manufacturers
Who tests	Centralized testing	Arranged by manufacturers and NAVLAP labs
Consequences	Requests for additional tests, limited delisting	Removal of non-compliant products

What Will Be Tested?



- Performance Parameters
 - Efficacy
 - Lamp Start Time
 - CCT
 - CRI
 - Lamp Base Type
 - Lumen Maintenance 1,000, 4,000 hours (life proxy)
 - Maximum Ballast Operating Case Temperature
- Consumer Informational Parameters
 - Product Packaging
 - Lamp Labeling, Warranty

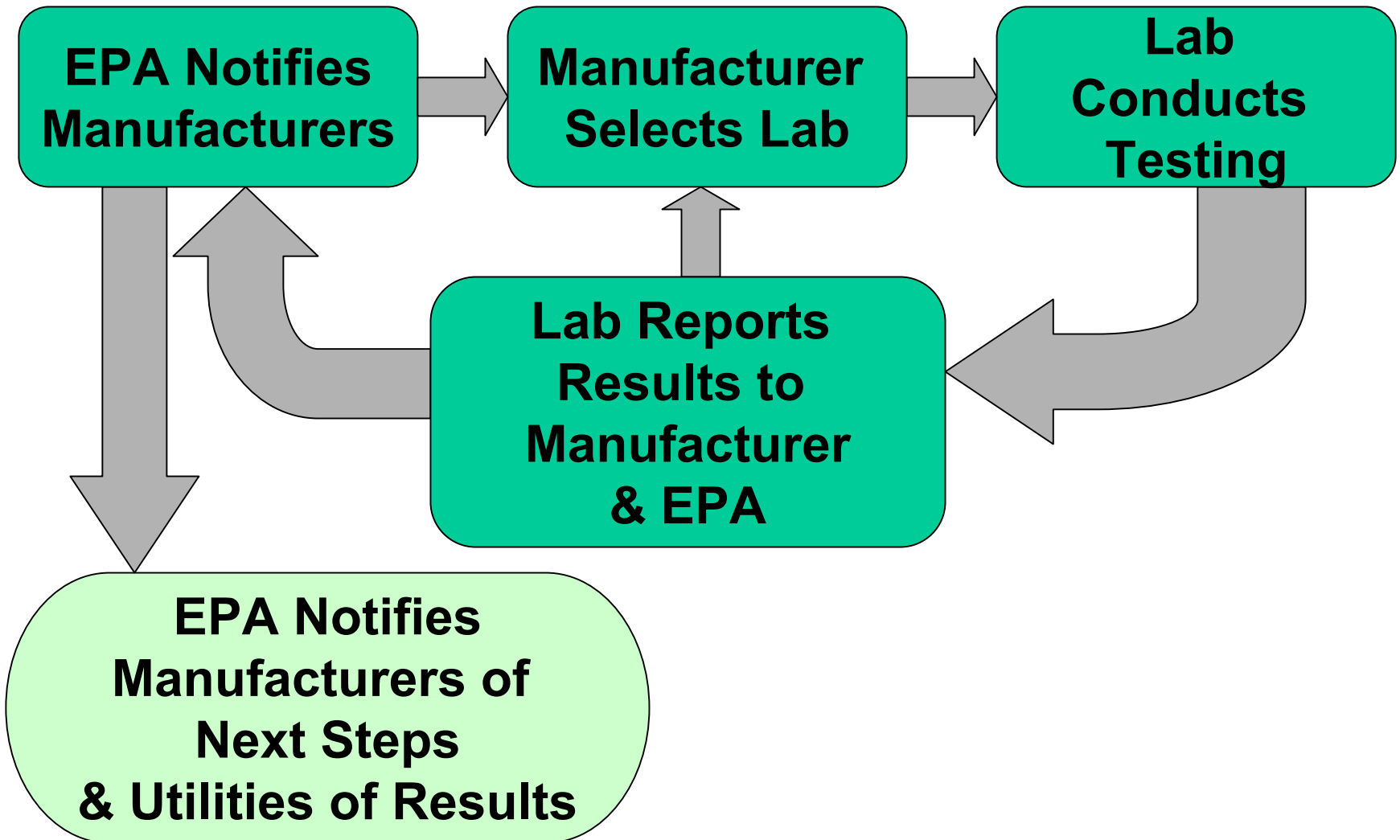
Testing Frequency



- Two Batches per year – approx. 20 fixtures per batch

January	February	March
April	May	June
July	August	September
October	November	December

Process

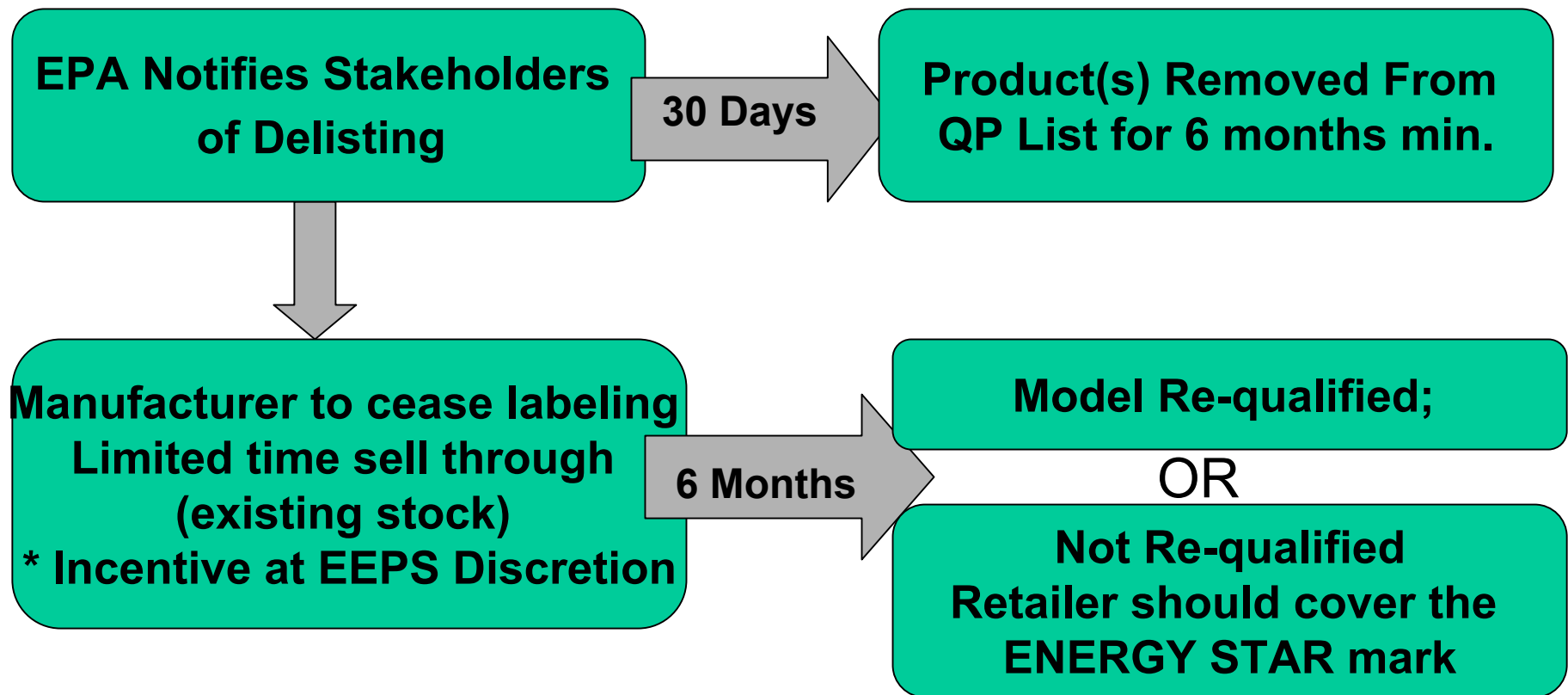


What's it going to cost?



- No more than 2 lamp/ballast platforms per year per manufacturer
- Use any 3rd party NVLAP lab
- Expect cost in low \$000s/model

Non-Compliant Product Delisting Protocol



QA4 Timeline



Oct 1, 2005

RLF V.4.0 Effective

Feb 17, 2006

***QA4 Guidelines and Procedures Manual*
released for comment**

Mar 6, 2006

Comments due

Mar 31, 2006

***QA4 Guidelines and Procedures Manual*
finalized & distributed**

April 3, 2006

Batch one letters are sent to partners

Oct 2, 2006

Batch two letters are sent to partners

**Dec 29, 2006 -
Aug 26, 2007**

QA4, batch one completed (*estimated*)



Thank You